



Glenn Research Center



FCF Combustion Element Capabilities

Fluid Supply & Combustion By-Product Cleanup

Features

- Capable of Mixing 3 Gases
- Three 3.8 L Bottles up to 14 MPa (~2000 PSI) each
- Cleanup of Combustion By-Products

Specifications

- Static Blending
 - Partial Pressures
 - ~ 1.0% Accuracy with 2 ideal gases
 - Accommodates Premixed Bottles
- Dynamic
 - Mass flow controllers
 - ~ 1.0% Accuracy
 - Flow Rate
 - Oxidizer: Up to 2910 cc/sec
 - Fuel: Up to 8.33 cc/sec
- Chemical Bed and Particle Mesh Filters
 - Designed to clean: Methane, Propane, n-Heptane, CO, CO₂ Sulfur Dioxide, Nitrous Oxide, plus others
- Gas Chromatograph

